

Macrolepidoptera of Glengarry and District (West Inverness-shire) 1977-78

By GUY HOWARD*

In 1977 I was living in Glengarry from May to September and I revisited the Glen in late April 1978. I was able to do a considerable amount of collecting and in view of the fact that lepidopterists seem to visit East Inverness-shire and tend to neglect the West, I have thought it worthwhile listing all the species encountered. I was living at Tomdoun and Tornacarry, so most of the records come from that area, although observations from Invergarry to as far west as Loch Hourn are included.

Much of Glengarry consists of moorland with birch-woods. To the south between the Loch and the hills, which rise to nearly 3,000 feet, are sparse remnants of the Caledonian pine forest. These are surrounded by an extensive area of recently planted conifers. At the western end of this woodland are some pure stands of old scots pine with a luxuriant carpet of *Vaccinium*. Aspen is rare and mainly restricted to scattered trees in a small area by the Loch west of Invergarry, but there is a small aspen wood in a private garden near Inchlaggan. Juniper is scarce but is common locally on a north-facing hillside near Invergarry. Along the north shore of Loch Garry are the remains of old oak forest.

In the list which follows, nomenclature is taken from Kloet and Hincks (1972). Where no locality is stated, the region referred to is Glengarry. In some cases only one or a few specimens of a species were found, and any comment on abundance of a species is restricted to instances where reasonable numbers of the insect were seen.

Abbreviations: Tdn. = Tomdoun. Tcy. = Tornacarry. Inch. = Inchlaggan.

HEPIALIDAE

Hepialus humuli L., Tdn. *H. sylvina* L., Tcy. *H. hecta* L., common. *H. fusconebulosa* De Geer, common in Glengarry and at Loch Hourn; a sample taken at light (15.vi-27.vi.77) at Tdn. and Tcy. comprised 192 specimens, of which 45 (23.4%) were f. *gallicus*, the remainder being typical.

COSSIDAE

Cossus cossus L., one to light, Tcy., 4.vii.77; and another to light, Tdn., 5.vii.77.

PIERIDAE

Pieris brassicae L., larvae on *Brassica* in garden at Tcy.; only one adult seen there in July 1977. *P. rapae* L., occasional at Tcy.; larvae on garden *Brassica*. *P. napae* L., common where *Cardamine pratensis* grows.

LYCAENIDAE

Callophrys rubi L., widespread over moorland near woods; also at Kinloch Hourn. *Polyommatus icarus* Rott., Tdn. and Glen Barrisdale (Loch Hourn); nowhere in large numbers.

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NYMPHALIDAE

Aglais urticae L., common near habitation in May after hibernation. *Boloria selene* D. & S., widely distributed and common, as among young birch at Inch.; also common along the slopes on the north side of Loch Hourn, west of Torr a' Choit, where on 16.vi.77 it was flying with occasional worn *B. euphrosyne*. *B. euphrosyne* L., not found in Glengarry; on 30.v.77 flying over rough grassy hillsides among young bracken on the slopes west of Kinloch Hourn. *Argynnis aglaja* L., frequent locally at Tcy.; also at Glen Barrisdale.

SATYRIDAE

Pararge aegeria L., Kinloch Hourn, on 30.v.77 several were flying at the edge of mixed woodland and in a small clearing behind the Lodge; also a few in a birch wood near Torr a' Choit (1½ miles west of Kinloch Hourn); on later examining the only two specimens kept, at least one was subsp. *oblita* Heslop-Harrison; this form is known from N. Argyll and the Inner Hebrides (see Dennis, *The British Butterflies — their Origin and Establishment*, p. 169). *Erebia aethiops* Esp., in August became very common locally in the Tcy./Inch. area, usually in south-facing grassy localities at the edge of birch woods. *Maniola jurtina* L., common near the road at Tcy.; also at Glen Barrisdale. *Coenonympha pamphilus* L., one seen at 1,000 feet on the N.E. shoulder of Corrie Glas, and another on the summit ridge at 2,800 feet; occasional specimens at Loch Hourn. *C. tullia scotica* Staud., widely distributed in small numbers in the Tcy.-Corrie Glas area.

LASIOCAMPIDAE

Poecilocampa populi L., common at Tcy. *Trichiura crataegi* L., single specimens to light at Tcy. and Inch. *Lasiocampa quercus callunae* Palmer, widespread; it was not unusual to find larvae in 1977. *Macrothylacia rubi* L., widespread at Glengarry and Loch Hourn. *Philudoria potatoria* L., larvae at Loch Hourn (Eilean a' Mhuineil); to light at Tdn. and Tcy.

SATURNIDAE

Saturnia pavonia L., common.

DREPANDIDAE

Falcaria lacertinaria L., common. *Drepana falcataria scotica* Byt.-Salz., widespread in Glengarry.

THYATIRIDAE

Thyatira batis L., one to light at Inch., 23.vi.77. *Tethea* or D. & S., at Invergarry and Inch. where aspen grows; one taken at Inch. has yellow stigmata; all had a dark ground-colour with well-marked banding. *Tetheella fluctuosa* Hübn., males in fair numbers to light at Tcy. and Inch.; most had the silvery-white ground colour of the basal and outer portions of the forewing replaced by a dusky shade; some, however, retained the whitish colour to a fairly marked degree; many were worn and further samples are needed. *Ochropacha duplaris* L., common at Tcy.; also, at Achadh-Luachrach (Glengarry) and Glen Barrisdale. *Achyla flavicornis scotica* Tutt, Tdn. and Tcy.; considerable variation in intensity of the cross-banding.

Archiearinae parthenias L., flying in birch woods from 4.iv.78 at Faichem and Loch Lundie (Nr. Invergarry); one example had the orange colour of the left hindwing replaced by a variable pale yellow; microscopically this was found to be due to deformation of the scales. *Geometra papilionaria* L., common. *Cyclophora albipunctata* Hufn., common. *Scopula floslactata* Haw., Torr a' Choit. *S. tenata* Schrank, Invergarry. *Idaea biselata* Hufn., Inch. *I. aversata* L., common. *I. straminata* Borkh., common. *Orthonama lignata* Hübn., Tdn.; Tcy. *Xanthorhoe designata* Hufn., common. *X. munitata* Hübn., common at Inch. and Tcy. *X. spadicearia* D. & S., Tcy.; Achadh-Luachrach. *X. montanata* D. & S., common. *X. fluctuata* L., common at Tcy. *Epirrhoe tristata* L., Tcy. and Kinloch Hourn. *E. alternata* Müller, common. *Camptogramma bilineata* L., Tcy.; Kinloch Hourn. *Entephria caesiata* D. & S., widespread on moorland. *Anticlea derivata* D. & S., one to light Achadh-Luachrach, 23.v.77. *Lampropteryx suffumata* D. & S., common at Tdn. and Tcy. *Cosmorhoe ocellata* L., Tdn.; Tcy.; Achadh-Luachrach. *Coenotephria salicata latentaria* Curtis, flying at 2,800 feet on the summit ridge of Corrie Glas, 6.vii.77. *Eulithis testata* L., Tcy. and Inch. *E. populata* L., common and widespread; also at Loch Hourn. *E. pyraliata* D. & S., Tcy.; Inch. *Chloroclysta siterata* Hufn., and *C. miata* L., Tdn.; Tcy.; Achadh-Luachrach. *C. citrata* L., Tcy.; Inch. *C. truncata* Hufn., common at Inch.; also at Kinloch Hourn. *Cidaria fulvata* Forster, Inch.; Tcy. *Thera firmata* Hübn., Inch. *T. obeliscata* Hübn., common at Tcy. and Inch.; also at Glen Barrisdale. *T. cognata* Thunb., Invergarry. *Electrophaes corylata* Thunb., common and widespread; at Torr a' Choit f. *albocrenata* Curtis are fairly frequent. *Colostygia olivata* D. & S., Tcy.; Inch. *C. multistrigaria* Haw., Tdn.; Tcy.; variable with some very pale forms. *C. pectinataria* Knoch, common; also at Torr a' Choit. *Hydriomena furcata* Thunb., common at Inch. *H. impluviata* D. & S., Ladiadh Burn (Loch Garry). *Coenocalpe lapidata* Hübn., Tcy. *Epirrita dilutata* D. & S., Tcy. *E. autumnata* Borkh., Tcy. *Operophtera brumata* L., common at Tcy. *Perizoma alchemillata* L., Invergarry. *P. blandiata* D. & S., Tdn.; Tcy. *P. didymata* L., common. *Eupithecia pulchellata* Steph., widespread; also at Glen Barrisdale. *E. satyrata* Hübn., Tcy. *E. goenssiata* Mabile, Tcy.; Spidean Mialach. *E. vulgata* Haw., Tcy. *E. subfuscata* Haw., Tdn.; Achadh-Luachrach. *E. icterata* Villers, Tcy.; Inch. *E. indigata* Hübn., Tdn. *E. nanata angusta* Prout, Tdn. *E. virgaureata* Doubl., Tdn.; Tcy. *E. abbreviata* Steph., Tdn.; Tcy.; Achadh-Luachrach. *E. pusillata* D. & S., Tcy.; Spidean Mialach; no juniper was found in either of these two localities. *E. lariciata* Freyer, Tdn. *Chesias legatella* D. & S., Inch.; Tcy. *C. rufata* Fab., Tcy. *Carsia sororiata anglica* Prout., Tcy. *Aplocera plagiata* L., Tcy.; Inch.; Glen Barrisdale. *Odezia atrata* L., one flying by Ladaidh Burn N.W. of Ben Tee. *Venusia cambrica* Curtis, Tcy.; Glen Barrisdale. *Lobophera halterata* Hufn., Invergarry. *Trichopteryx*

carpinata Borkh., Tdn.; Invergarry; considerable variation in the intensity of the dark cross-bands. *Acasis viretata* Hübn., Invergarry. *Abraxas grossulariata* L., Inch.; Kinloch Hourn; Skiary (Loch Hourn). *Lomaspilis marginata* L., common. *Semiothisa notata* L., common. *S. liturata* Clerck, common. *S. brunneata* Thunb., found in three localities in Glengarry; at Braigh Uaine on 10.vii.77 flying among old pines; on 21.vii.77 flying locally in abundance over *Vaccinium* by Ladaidh Burn; at this point the Burn has formed a spectacularly deep gorge and along this part of its course are numerous old pines with *Vaccinium*; in all other directions are alien conifers; single specimens came to light on two occasions at Tcy. *Petrophora chlorosata* Scop., very common wherever bracken grows; also at Torr a' Choit. *Plagodis pulveraria* L., Tcy.; Invergarry; Kinloch Hourn. *Opisthograptis luteolata* L., common; also at Kinloch Hourn. *Epione repandaria* Hufn., Inch. *Pseudopanthera macularia* L., Kinloch Hourn 29.v.77, flying over a sunny slope with *E. atomaria* and a few *E. euphrosyne*; one seen in a sunny pine-clearing at Tdn. *Ennomos alniaria* L., common at Inch. and Tcy. *E. erosaria* D. & S., single specimens at Inch. and Tcy.; one example has the two cross lines almost touching at the inner margin of the forewings. *Selenia dentaria* Fab., common. *S. lunularia* Hübn., single specimens at Tdn. and Tcy. *Gonodontis bidentata* Clerck, common; also at Torr a' Choit. *Crocallis elinguaris* L., Tcy.; Inch.; Glen Barrisdale. *Colotois pennaria* L., Tcy. *Apocheima pilosaria* D. & S., Tcy. *Lycia hirtaria* Clerck, common at Tdn. and Tcy.; all are large and well-marked with every gradation between grey and ochre. *Lycia lapponaria* Boisd., a colony exists at Tdn. at 500 feet by a stream where bog myrtle is growing; in 1978 the main emergence occurred in mid April and on 17.ix.78 about two dozen were seen resting on posts. *Biston betularia* L., among 110 *typica* taken at light (22.v-27.vi.77) at Tdn. and Tcy. was one f. *carbonaria*; whether this was a lucky catch or whether *carbonaria* occurs at above mutation frequency only further sampling will reveal. *Agriopsis leucophaeria* D. & S., Tcy. *A. aurantiaria* Hübn., common at Tcy. *A. marginata* Fab., Tcy. *Erannis defoliaria* Clerck, common at Tcy. *Cleora cinctaria* D. & S., rests on pylons and posts at Tdn.; to light at Tcy.

Alcis repandata L., a sample taken at light in a fragment of the Caledonian pine forest at Braigh Uaine in Glengarry, on the night of 9.vii.77, comprised 71 specimens; of these six (8.4%) were banded (f. *conversaria* Hübn.) and the rest *typica*; another sample at light from an area including moorland, birch and other deciduous woodland at Tcy. and Inch. was taken from 10.vii-31.vii.77; 54 specimens included five (9.2%) *conversaria*, remainder *typica*; a third sample was taken at light on the night of 14.vii.77 at Glen Barrisdale — this area, near the south shore of Loch Hourn, is the most westerly situated Caledonian pine forest in Scotland — the weather was bad but 35 *repandata* were taken, of which all

were *typica*. Of the *conversaria* taken, none had a white ground colour and so were heterozygotes. (Discussed by Williams, *Entomologist's Gaz.*, 1: 36-39, who quotes Cockayne's *repandata* at Kinlochewe taken in 1937 during the daytime. Of 576 specimens he took, 24.3% were judged to be heterozygous *conversaria* and 1% homozygotes.) It is unfortunate that a bigger sample could not be taken at Barrisdale, but it does suggest that if *conversaria* exists there, it is at a frequency nowhere approaching that at Kinlochewe. However, the gap of some 40 years, difference in ecology, and the possibility of differential survival and times of emergence of the forms, renders any comment speculative.

A. jubata Thunb., Inch. *Ectropis bistortata* Goeze, Tdn.; Tcy. *Ematurga atomaria* L., common. *Bupalus piniaria* L., Tdn.; Tcy.; Kinloch Hourn. *Carbera pusaria* L., common; also at Glen Barrisdale. *C. exanthemata* Scop., common. *Campaea margaritata* D. & S., common at Tcy. and Inch.; also at Glen Barrisdale. *Hylaea fasciaria* L., common; also at Glen Barrisdale. *Gnophos obfuscatus* D. & S., Tdn.; Tcy.; Inch.; Glen Barrisdale. *Psodos coracina* Esp., frequent on the N.E. shoulder and summit of Corrie Glas, 6.vii.77.

SPHINGIDAE

Laothoe populi L., common at Tdn.; Tcy.; Inch. *Deilephila elpenor* L., common at Tdn., Inch., Tcy., Invergarry; came to light and in the late evening to honeysuckle; this insect has clearly extended its range to the N.W. in Scotland.

NOTODONTIDAE

Phalera bucephala L., common at Tdn., Tcy., Inch. *Cerura vinula* L., common at Tdn., Tcy. *Harpyia furcula* Clerck, Tcy. *Notodonta dromedarius* L., common at Tdn., Tcy., Inch. *Eligomodonta ziczac* L., common at Tdn., Tcy. *Pheosia gnoma* Fab., common at Tdn., Tcy. *P. tremula* Clerck, two to light at Inch., 24/26.vii.77. *Ptilodon capucina* L., common at Tcy. *Odontosia carmelita* Esp., single specimens to light at Tcy. *Pterostoma palpina* Clerck, single specimens to light at Tcy. *Drymonia dodonoea* D. & S., one taken at Invergarry, 2.vi.77; several came to light in the oak-wood at Achadh-Luachrach, 14.vi.77. *D. ruficornis* Hufn., small numbers at Tdn. and Tcy.; common at light in the oakwood at Achadh-Luachrach.

ARCTIIDAE

Cybosia mesomella L., frequent and widespread in Tcy. area; one fresh specimen taken lacking the black dots on the forewings, was otherwise of normal colour. *Parastemia plantaginis* L., locally common at Tcy. flying over moorland in the daytime. *Arctia caja* L., one taken at Tdn. *Diacrisia sannio* L., widespread; also seen at Torr a' Choit; came to light, and seen in daytime flying over moorland. *Spilosoma lubricipeda* L., common; also at Torr a' Choit. *S. luteum* Hufn., widespread but not nearly so frequent as *lubricipeda*. *Phragmatobia fuliginosa* L., cocoon found S. of Garrygualach; two seen flying at Torr a' Choit on 16.vi.77 at 5.00 p.m.

NOCTUIDAE

Euxoa tritici L., one taken at Inch. *E. nigricans* L., one taken at Inch. *Agrotis exclamationis* L., one taken at Tcy. *Axylia*

putris L., Invergarry; single specimen at Tcy. *Ochropleura plecta* L., widespread and common; also at Loch Hourn. *Eugnorisma depuncta* L., Inch. *Standfussiana lucerneae* L., one taken at Tcy. *Noctua pronuba* L., widespread and common. *N. comes* Hübn., Tcy.; Inch.; Glen Kingie; f. *curtisii* were frequent. *N. fimbriata* Schreber, Inch. *N. janthina* D. & S., Tcy.; Inch. *Graphiphora augur* Fab., Tcy. *Paradiarsia sobrina* Dup., Tcy. *P. glareosa* Esp., Tcy. *Lycophotia porphyria* D. & S., common as at Loch Hourn. *Diarsia mendica* Fab., Tcy. *D. dahlii* Hübn., Tcy.; Inch. *D. brunnea* D. & S., Tcy.; Inch. *D. florida* Schmidt, Tdn.; Tcy.; Inch. *Xestia c-nigrum* L., Tcy. *X. ditrapezium* D. & S., Tcy.; Inch. *X. triangulum* Hufn., Tcy.; Inch.; Invergarry. *X. baja* D. & S., Tdn.; Tcy.; Inch.; Kinloch Hourn. *X. castanea* Esp., Inch.; Spidean Mialach. *X. sexstrigata* Haw., Inch.; Invergarry. *X. xanthographa* D. & S., Tcy.; Inch. *X. agathina* Dup., Tcy. *Eurois occulta* L., Tcy.; Inch.; no pale-coloured specimens were seen. *Anaplectoides prasina* D. & S., Tdn.; Tcy.; Inch. *Cerastis rubricosa* D. & S., Tdn.; Tcy. *Anarta myrtilli* L., Tcy.; Kinloch Hourn. *A. melanopa* Thunb., Corrie Glas at 2,800 feet and Spidean Mialach at 2,300 feet. *Discestra trifolii* Hufn., one at Tcy., 19.viii.77. *Hada nana* Hufn., Tdn.; Tcy.; Invergarry. *Polia hepatica* Clerck, Tdn.; Tcy.; Inch. *P. nebulosa* Hufn., Tcy.; Inch. *Lacanobia contigua* D. & S., Tdn.; Tcy.; Inch. *L. thalassina* Hufn., widespread. *L. oleracea* L., widespread. *L. Biren* Goeze, Tdn.; Tcy.; Invergarry. *Ceramica pisi* L., common. *Cerapteryx graminis* L., common; also at Kinloch Hourn. *Panolis flammea* D. & S., Tcy. *Orthosia cruda* D. & S., Tcy.; Invergarry. *O. gracilis* D. & S., Tdn., Tcy. *O. stabilis* D. & S., Tdn.; Tcy.; Achadh-Luachrach. *O. incerta* D. & S., Tdn.; Tcy. *O. gothica* L., common at Tdn., Tcy., Invergarry; f. *gothicina* constitutes about 10% or more of the population (of 125 specimens taken at light at Tdn., 30.iv-27.v.77, 12 were *gothicina*; again in 1978, 76 taken at light at Tcy. during the first half of April included 13 *gothicina*). *Mythimna conigera* D. & S., Inch. *M. ferrago* Fab., Inch. *M. impura* Hübn., Tcy.; Glen Kingie; Glen Barrisdale. *M. pallens* L., single specimen, Inch. *Cucullia umbratica* L., Tdn.; Tcy.; Inch. *Cleoceris viminalis* Fab., Tcy.; Inch. *Dasytopia templi* Thunb., Tcy. *Aporophyla lutulenta luneburgensis* Freyer, Tcy.; Inch. *A. nigra* Haw., Tcy.; Inch.; Achadh-Luachrach. *Lithomoia solidaginis* Hübn., Tcy.; Inch. *Xylena vetusta* Hübn., common at Tdn., Tcy., Inch. *X. exsoleta* L., a single specimen to light at Tcy. on 7.iv.78. *Allophytes oxyacanthae* L., Tcy.; Inch. *Dichonia aprilina* L., Inch. *Drybotodes eremita* Fab., Tcy.; Inch. *Blepharita adusta* Esp., Tdn.; Inch. *Antitype chi* L., Tcy.; Inch. *Eupsilia transversa* Hufn., Tcy. *Conistra vaccinii* L., Tdn.; Tcy.; Inch. *Agrochola lota* Clerck, Inch. *A. macilenta* Hübn., Inch. *A. helvola* L., Inch. *A. litura* L., Inch. *Parastichtis suspecta* Hübn., Inch. *Xanthia togata* Esp., Inch. *X. icteritia* Hufn., Tcy.; Inch. *Acronicta megacephala* D. & S., a single specimen at Inch., 23.vi.77, which had a pinkish tinge to the forewings. *A. leporina* L., Tcy. *A. pisi*

L., widespread. *A. menyanthidis* Esp., Tdn.; Tcy. *A. euphorbiae myricae* Gueneé, Tdn. *A. rumicis* L., Tdn.; Tcy.; Torr a' Choit. *Craniophora ligustri* D. & S., a single specimen at Tdn.; ash does not appear to grow elsewhere in the vicinity. *Amphipyra tragopoginis* Clerck, Inch. *Rusina ferruginea* Esp., common and widespread, including Loch Hourn. *Euplexia lucipara* L., Tdn.; Tcy.; Inch.; Torr a' Choit. *Phlogophora meticulosa* L., Tcy. *Enargia paleacea* Esp., Tcy.; Inch. *Cosmia trapezina* L., Tcy.; Inch. *Hyppa rectilinea* Esp., a few single specimens to light at Tcy. *Apamea monoglypha* Hufn., common as at Kinloch Hourn. *A. lithoxylea* D. & S., single specimens at Tdn. and Inch. *A. exulis assimilis* Doubl., taken frequently at light at Tdn., Tcy. and also 1,500 feet up Spidean Mialach. *A. crenata* Hufn., Tdn.; Inch.; Achadh-Luachrach. *A. remissa* Hübn., Tdn.; Tcy.; Inch. *Oligia fasciuncula* Haw., Invergarry. *Mesoligia literosa* Haw., Inch. *Mesapamea secalis* L., widespread; also at Kinloch Hourn. *Photedes minima* Haw., Inch. *P. pygmina* Haw., Tcy.; Inch. *Luperina testacea* D. & S., Tcy. *Amphipoea lucens* Freyer, Tcy.; Inch.; Spidean Mialach. *A. crinanensis* Burrows, Spidean Mialach. *Hydraecia micacea* Esp., Tcy.; Spidean Mialach. *Celaena haworthii* Curtis, Inch.; Spidean Mialach. *C. leucostigma scotica* Cockayne, Tcy.; Inch.; Spidean Mialach. *Stilbia anomala* Haw., Tcy.; Inch. *Eustrotia uncula* Clerck, widespread; particularly common locally at Tcy. where it flies over bog during the day. *Pseudoips fagana britannica* Warren, one to light at Achadh-Luachrach, 14.vi.77. *Nycteola revayana* Scop., one at Inch. *Colocasia coryli* L., Tdn.; Tcy.; Achadh-Luachrach. *Diachrysis chrysis* L., widespread. *Plusia festucae* L., Tdn.; Inch.; Tcy.; Glen Barrisdale. *Autographa gamma* L., first specimen taken at Inch., 27.ix.77, but more appeared in October. *A. pulchrina* Haw., Tdn.; Inch.; Glen Barrisdale. *A. bractea* D. & S., Tdn.; Tcy.; Inch.; Kinloch Hourn. *Syngrapha interrogationis* L., Tcy.; Inch.; Braigh Uaine. *Abrostola triplasia* L., Tdn.; Tcy.; Inch. *Scoliopteryx libatrix* L., Tdn.; Tcy.; Inch.; Achadh-Luachrach. *Hypena proboscidalis* L., widespread and at Kinloch Hourn.

Of interest was the capture at light in October 1977 at Tcy. of *Palpita unionalis* Hübn. This must surely be a very northerly record for this immigrant Pyralid. I am told that *Autographa gamma* became frequent in October 1977 in Glengarry, so it appears likely that the dearth of migrants earlier in the year was to an extent balanced by a late influx.

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